

## **ABSTRACT**

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2 An exemplary system includes a data encoder generating a base layer  
3 bitstream encoded at a base bit-rate, and a plurality of enhancement layer  
4 bitstreams encoded at different enhancement layer bit-rates, and a bitstream  
5 selection module selecting one of the enhancement layer bitstreams every video  
6 frame based on available channel bandwidth. A method includes transmitting a  
7 first enhancement layer bitstream encoded at a first bit-rate, detecting a transition  
8 in network bandwidth through a switching bit-rate, and transmitting a second  
9 enhancement layer bitstream encoded at a second bit-rate based on the transition in  
10 network bandwidth.  
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